

RTE-2 | 500327

General information

Description	RTE-2 is a rat hepatoma cell line derived from a rat hepatoma (RTE-2) and is characterized by its ability to produce and secrete albumin, alpha-fetoprotein, and other liver-specific proteins. It is a continuous cell line that can be grown in primary culture and is widely used for studying liver function, drug metabolism, and protein synthesis.
Organism	Rat
Tissue	Liver
Synonyms	RTE2, RTE 2, Rat Hepatoma Cell Line 2

Characteristics

Breed/Subspecies	Wistar-Kyoto
Morphology	Epithelial cells
Cell type	Primary
Growth properties	Adherent

Identification and documentation

Citation	RTE-2 (Rat Hepatoma Cell Line 2) Cytion 500327
Biosafety level	1
NCBI_TaxID	10116
CellosaurusAccession	CVCL_5889

Genetic information and markers

Tumorigenic	No
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References

MDA-MB-231 | 500327

Culture Medium DMEM, w: 4.5 g/L D-glucose, w: 4 mM L-glutamine, w: 3.7 g/L NaHCO₃, w: 1.0 mM β -mercaptoethanol (Cytion 820300a)

Supplements 10% FBS

Dissociation Reagent Trypsin

Subculturing Cells are grown in DMEM supplemented with 10% FBS. For passaging, cells are trypsinized and resuspended in DMEM supplemented with 10% FBS. Cells are then seeded into new flasks at a density of 1 x 10⁵ cells per flask.

Split ratio 1:4 to 1:8

Fluid renewal 2 to 3 times per week

Freeze medium DMEM supplemented with 10% FBS and 10% DMSO. Cells are resuspended in this medium and frozen in liquid nitrogen.

Thawing and Culturing Cells

1. Thaw cells rapidly in a water bath at 37°C.
2. Centrifuge cells at 300 x g for 3 minutes.
3. Resuspend cells in DMEM supplemented with 10% FBS.
4. Seed cells into a T25 flask at a density of 1 x 10⁵ cells per flask.
5. Incubate cells in a humidified CO₂ incubator at 37°C.
6. Monitor cell growth and confluency.
7. Pass cells when they reach 70-80% confluency.
8. Repeat the process for subsequent passages.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating None

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**Freezing
Procedure**

Store the sample at -78°C.

**Shipping
Conditions**

Store the sample at -78°C.

**Storage
Conditions**

Store the sample at -150 to -196 °C.

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Sterility

The sample is sterile and suitable for PCR analysis.

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STR

Amelogenin: x,x
Rat_D1Wox31: 120
Rat_D2Wox37: 156
Rat_D19Wox11: 228,232
Rat_D10Wox8: 266
Rat_D4Wox7: 157
Rat_D2Wox27: 219
Rat_D5Rat33: 122
Rat_D10Wox11: 165
Rat_D1Wox23: 226
Rat_D12Wox1: 402
Rat_D6Wox2: 112
Rat_D8Wox7: 185
Rat_D6Cebr1: 239
SRY: x,Y